

To:

J. R. Novak

Industrial Hygiene & Safety

From:

C. S. McKee

Industrial Hygiene & Safety

Subject:

Extrusion of Billets, Kaiser Aluminum Corporation, Dolton,

<u>Illinois</u>

C. S. McKee monitored the extrusion of three CP-5 type fuel elements on February 17, 1959. The extrusion operation was accomplished at the Kaiser Aluminum Corporation, Dolton, Illinois. The extrusions were carried out by Kaiser personnel under the supervision of L. C. Hymes (MET) and T. N. Czaplicki (MET). Normal $U_3^{\,\,0}_{\,\,0}$ was used in the elements.

The billets had been transported to the plant by Mr. Hymes on February 16. The billets had been placed in the furnace overnight in order to obtain the proper temperature for extrusion.

Mr. McKee made a preliminary survey of the area around the press and runout table before the operation began. No activity was detected in this survey.

An air sample was collected during the entire operation. This sample revealed no long lived airborne activity.

A survey of the area around the press and run-out table was made following the operation. No activity was detected in this survey.

The press, furnace and run-out table were the only facilities used.

C. S. McKee

これではなっていたがないのであるというないのではない

CSM:ni

Att.

cc: L. C. Hymes, w/att.

A. G. Januska, w/att.

G. T. Lonergan, w/att.

R. A. Noland, w/att.

Reading File, w/o att.

File, w/att. CF, w/o att.

-Location	Requester	Surveyor-	-Req	 ucst	Results- REMARKS					
BILLET	TIME	TAPE SHEAR OF		UMENT SURVEY						
#	EXTRUDED	PLATE	Beta-GAMMA	ALCHA						
F2	0925	NAD	11/1"H\$5	NAD :	SLIGHT RIPPLING OF CLADDING. EXTRUDED TUBE SURVEYED BOTH INSIDE & OUTSIDE.					
PUSHED CLEANOUT BILLET	1000	NAD	NAD	NAD						
F1	1030	,	15/1"H/5 NAD	3-4M 10-20M	BAD TEATING OF CLADDING. ROUGH BUSTERING OF CLADDING. SURVEYED BOTH INSIDE AND OUTSIDE					
1HS-39 (11-54)										

AIR SAMPLE DATA

1. DATE		TIME	ON TIMI	E OFF 7.	RUN TIME	SUSP	ECTED AC	TIVITY	14	. PROTECT	TION WORN		FIRST	$\frac{\beta \gamma}{}$ =	
2-17-59		292	5 111	5	110 MIN 1	" //	RANIUM	11/-	ء [د.	UPPLIED	AID !	┌─ └─	COUNT FACTOR	α	
1	1		RATE 1 ³ /hr + 60		1:		LANCUM	LIVOR	.2	0, , 6,65	710	16. FR/	FINAL (COUNT OF 0	ι βγ
8000 T PRE	- 25	<u> </u>	4-/nr + 60	= .2	5M³/min M	APC ,	7.		_ A	SSAULT	AASKS		PC R	≽іх Г	רו ר
KAISER ALLMIN	, , , , _	e	:fm + 35.4	س ل		PC <u>~</u> <	-70	d/m	/M ³	F6040 4 7 0			PC	\ [
4. OPERATION CODE		FAMPL	ER TYPE	10. YOL	UME	a. 186 -				ESPIRATO			hichever	>10% <u> </u>	
		F.	Q.	27.	5 M3 O	PE 3	<u>-2200</u>	d/m	/M³ N	IONE		⊠ "	**d) 	< 10% D	
17.	•					• .	-							,	
REMARKS: TA	KEN	<u>D</u>	URIN	G E	XTRUS	ION	OF 1	HE	<u>CP-</u>	-5 TY	PA FL	iel R	ODS		
CONTAININ	10	NOR	MAL	1/300	ATK	AISER	e ALI	IMINI	UM 1	CORP.	DOLTO	N.I	- LL.		
		_													
- '					 				 -		· 			·	
					,			•	,		•			•	
	4.				ROSS COUNT		ВКО	D N	ET	A STORES	1 35	/	1	7	7
	WE			counts	/4/	Pet d	10			W 200	The !		18	6/84/	A ATURE
L Park	•	ODER!	/5/	(O)		5 KW /	200	45.X4	10	/3°5/	ECHIEL !	d rul H?	1.8 24.8	C SA	} /
7400		ECORDER!	July 21 10	A / B	A LINES CONT	ithe / S	Minder Squ	A STRUCK	OUT /S	A 6/ 94	LEGITATIVE /	gi. Se	\$\$CO!	1 40 AEC	
1. Ogt dur		204	JU 1985		23	24	2.5	26	Solution 1		29	30	<u></u>		kritiris
								2.	. 1		. *				
2-17 (1357)	-	37	37	2	19	2	17	.17	1.3	130	4.7	6.7%	d	2H 43M	CLM
4				ļ ,		·									
<u> </u>				 			— · ·				•				
% Y								¥ .							
•							j .			,	3				
	 			_	<u> </u>	<u> </u>	* 1			· ·		<u> </u>		<u> </u>	<u> </u>
2-17 (1359)	l i	115	115	z	58	32	26	·°20	_	1211	47	2.1%	B	21110	10
W-1/(/357)		//5	//3	 ~ _	38	36	26	1-0	· .	1300		14.170		2H45M	CSAM
					Jan.							1			
	<u> </u>		· 			<u> </u>		<u> </u>		ļ		<u> </u>			
と						<u>(3).</u>									
		نِــــا		<u> </u>			<u> </u>	لـلــــــــــــــــــــــــــــــــــــ	. 1	L			<u> </u>	<u> </u>	<u>L</u>